Denton County Amateur Radio Association

The Exciter

Meeting Monday, 26 SEP, 1900L (Denton County EOC) **SEP 2011**

EDITOR: Don, KG6LE <(callsign)@peoplepc.com> 817-491-9472
MEMBERSHIP: Gerald, WB5NZV <WB5NZV@ARRL.NET> 940-387-2314

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The EXCITER

Is published each month for the purpose of informing DCARA members of current events and issues of interest to amateur radio. Articles and suggestions are always welcome. Articles that appear in this publication may be reproduced provided credit is given to *The EXCITER* and to the original source.

President's podium

By Walt, KE5SOO

Can you believe it is already the end of September, I sure can't. I am certainly enjoying the cooler weather.

The month of September is Emergency preparedness month. I encourage each of you to check your smoke detectors, inventory your go bags, and dust off the emergency plan for your family. If you don't have any of the previously mentioned stuff there are a lot of websites that can assist you in building a go bag and creating an emergency plan. A good place to start is www.ready.gov and www.knowhat2do.com.

This is also a time when we recognize are emergency responders and their dedication,

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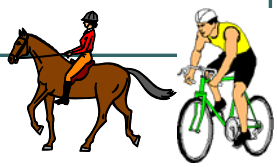
Operations

By Mike, K5YX



Hope everyone had a great summer. It has been a couple of months since the last operations event. October brings us two events, one a bike ride and the other a horse ride. These are both great events with plenty of opportunities for radio operators of all skill levels. These are also great opportunities to gain experience as net control. Our mission for these events is safety and welfare communications.

The North Texas Bicycle Rally is October 8th, starting in the Roanoke area. It goes around Alliance Airport, through Westlake, Keller, and the far North part of Fort Worth. There are three courses from 15 to 50 miles. Radio opera-

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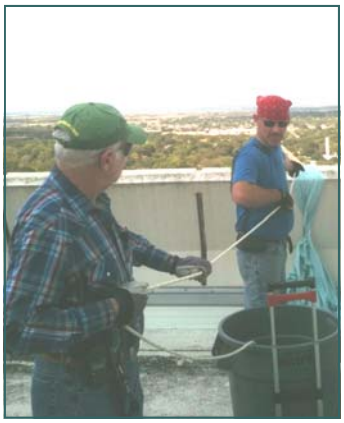
Antenna party



On Sunday afternoon, 18 Sep, several members removed some unused antennae from Stark Hall. Since the antennae are too long to fit in the elevator, it was over the side of the building for them. In the top picture, Guy, KC5GOI and Stewart, KE5UT, are lowering one of the antennae to the ground crew, Brent, KD5WYU, and Mike, AE5IV. Jay, W5GM, Greg, N5AOR, and Don, KG6LE, worked the high steel dismounting the antennae and Gerald, WB5NZV, identified coax runs and oversaw the project.

SEP meeting speakers:

Brent, KD5WYU & Walt, KE5SOO

Topic: APRS

ARES/RACES

By Guy, KC5GOI

The September 2011 ARES training net will be at the Denton County EOC on Thursday, 22 Sep, from 1930L to 2030L. The topic for the training session will be NBEMS, Narrow Band Emergency Message Software. Information can be found ahead of time by visiting www.arrl.net/nbems. If you already use Fldigi for HF digital modes such as PSK31, you are ahead of the game. We will be covering Fldigi, Flmsg, Flwrap and Flarq. We will not be going into the details of how to configure Fldigi during the training session. That is for another training net.

The deadline for obtaining your ICS 100 and ICS 700 has been extended to March 31 2012. This training will be offered again in house in addition to being available

(Continued on page 5)

Operations

By Mike, K5YX

The next events are North Texas Bike Ride Oct 8 and the Komen ride for the cure horse ride Oct 22.

Walmart
Save money. Live better.
Jerrad Boyles
Store-Manager
Store 217
801 West Main Street
Lewisville, TX 75067
T 972.436.3099 M (903) 517.7987

Area repeaters

Freq	Shift	PL	Call	Name
145.0100	none	none	W5NGU	DCARA Digipeater-DENTON
145.1700	-.600	110.9	W5FKN	DCARA-Denton County EOC
145.2100	-.600	110.9	N5MJQ	Metrocrest ARA-Carrollton
145.2300	-.600	110.9	N5ERS	Flower Mound
145.4000	-.600	110.9	NETARC	Grapevine
145.4900	-.600	85.4	WD5U	Rosston Tower
146.9200	-.600	110.9	W5NGU	DCARA - Denton
147.3800	+.600	110.9	K5LRK	LAARK - The Colony
441.3250	+5.0	88.5	W5NGU	Portable DCARA repeater
441.3750	+5.0	114.8	KA5R	Trophy Club
441.5500	+5.0	123.0	KE5UT	Celina
442.1750	+5.0	110.9	NETARC	Southlake
442.6500	+5.0	110.9	N5MJQ	Metrocrest ARA-Carrollton
443.5250	+5.0	118.8	WA5LIE	DCARA - Denton
443.7375	+5.0	141.3	N6LXX	Rosston Tower
443.8750	+5.0	110.9	NETARC	DFW Airport
444.0500	+5.0	110.9	W5NGU	DCARA-Denton County EOC
444.2250	+5.0	110.9	WI5J	Coppell
444.7000	+5.0	110.9	NETARC	Southlake
444.8500	+5.0	110.9	N5ERS	Flower Mound
927.4125	-25.0	432.0	W5DMT	Denton
927.6125	-25.0	110.9	W5NGU	DCARA-Denton County EOC
927.8750	-25.0	103.5	N5YEJ	Flower Mound
1253.6000	none	none	W5NGU-G	DCARA - EOC - D*Star "G"
1293.4000	-20.0	none	W5NGU-A	DCARA - EOC - D*Star "A"
442.9250	+5.0	none	W5NGU-B	DCARA - EOC - D*Star "B"
147.4500	-1.0	none	W5NGU-C	DCARA - EOC - D*Star "C"
1259.2000	none	none	KE5YAP-G	DCARA-Rosston- D*Star "G"
1293.2000	-20.0	none	KE5YAP-A	DCARA-Rosston- D*Star "A"
440.7125	+5.0	none	KE5YAP-B	DCARA-Rosston- D*Star "B"
147.4900	-1.0	none	KE5YAP-C	DCARA-Rosston- D*Star "C"

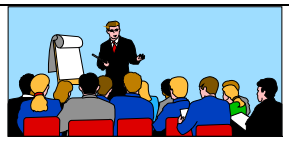
DCARA information

DCARA on line: www.dcara.net
Denton ARES on line: www.denton-ares.org

Meetings: Fourth Monday of each month (except Dec) at 1900L. We are currently meeting at the new Denton County Emergency Operations Center (EOC), 9060 Teasley Lane, Denton. For more info on the Denton County Amateur Radio Association, contact one of the individuals listed to the right.

Name	Position	Phone No.	Email
Walt Mayfield	President	940-368-4659	walt@Mayfield7.com
Mike Carline	Vice Pres.	972-347-5390	kd5zca@fam2.com
Gerald Marchant	Secretary	940-387-2314	wb5nzv@arrl.net
Mike Nelson	Operations	214 924 8531	k5yx@arrl.net
Mike Chittenden	Tech Dir.	972-567-5498	mikec@k104fm.com

Meeting minutes



Minutes of DCARA Meeting
August 22, 2011 7pm

Meeting called to order by VP Mike Carline at 1900L
Pledge of Allegiance
Introductions

Program presented by Mike Nelson on APRS

Motion by Mike Sundstrom to accept minutes of July meeting as printed in last newsletter
Seconded by Jonathan. Motion carried.

Discussion of repeater upgrade project. Mike Chittenden discussed the repeater upgrades status.
Plan is to purchase 4 new Kenwood repeaters TKR750/850
Motion from Mike Sundstrom to authorize $5000.00 for the purchase. Jonathan Down seconded the motion. The motion carried.

Gerald asked for approval to pay the annual liability insurance premium of $320. Mike Sundstrom made the motion. Jonathan Down seconded. This motion carried.

Mike Nelson discussed the upcoming events.
Oct 8 bike rally (North Texas Bike Ride)
Oct 29 is the horse ride is Wise County
Turkey Roll is November 19th
Next month program is D*Star part 3

Mike Chittenden continued the repeater report. Rosston D*Star turned up but with no internet access at this time. Dr Knight's WD5U repeater is moved back to 145.490 88.4 pl. And Jay's repeater on 145.23 has been converted to narrow band operation.

Brent presented D*Star status

Gerald covered ARES report for Guy
-ICS training status of each ARES member will be posted on the ARES web site
-The ARES SET will be November 5th. It will be a joint operation with Tx ARMY MARS
-APRS capability is highly recommended when doing mobile SKYWARN operations. The applications for smart phones like IBCNU can be used.
-All ARES members should have UHF capabilities in addition to VHF and be prepared to move to a UHF repeater if so directed by NET control

Gerald presented the financial report.
-General fund $2700
-Repeater fund $5500

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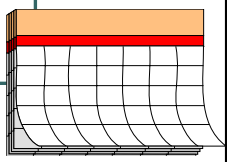
Coming events



SEP

22	**ARES Training, 1930L, County EOC**
24	Public Safety Day, Denton
25	**VE Test Session, 1500L, see below**
26	**DCARA Meeting, 1900L, County EOC**

OCT

01	Belton Hamfest
08	NT Bike Rally
12	**DCARA Board Meeting**
23	**VE Test Session, 1500L, see below**
24	**DCARA Meeting, 1900L, County EOC**
29	Komen Horse Ride

For up to date info on contests, go to: www.arrl.org/contest

Amateur test session

By Jon, N5JDG

Test Session for this month will be on Sunday, 25 SEP. The time is 1500L and the place is the Denton County EOC which is located at 9060 Teasley Lane (FM 2181), south of Denton. For licensed amateurs, talk-in is on the Denton 146.92 minus (110.9) repeater.

Tests will normally be conducted on the fourth Sunday of every month. All test participants: you must bring your picture ID, and $15.00. If applicable (ie. upgrading) also bring your FCC License, a COPY of your FCC License, your CSCE, and a COPY of your CSCE. For more information please contact Jon Gumfory (N5JDG) at 940-300-0243 or <n5jdg@cebridge.net>.

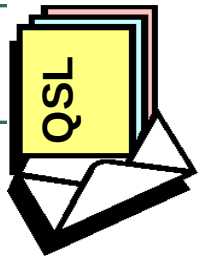
Board meeting minutes

Summary minutes of the DCARA Officer's Meeting
September 14, 2011 1900L

Will publish summary of Officer's Meeting minutes on web/newsletter
Christmas dinner – Walt suggested the Prairie House in Roanoke
Proposing December 8th, Thursday
Approved by members present

Outgoing QSLs

By Don, KG6LE



This is the month to get your QSL cards submitted for the outgoing ARRL bureau. Bring your cards to the meeting Monday night and I will mail them off during the following day. This is a free service provided by the ARRL and DCARA for members of both organizations.

Sort your cards as described in the ARRL bureau web page and include a copy of your latest "QST" magazine mailing label as proof of ARRL membership. I will then combine the cards and sort them, package them up and mail them to the outgoing bureau. The DCARA will pay the outgoing bureau fee.

Voter system

By Gerald, WB5NZV

For those of you that may not know of the voter system that is on the 146.920 repeater, here is a brief description. There are three regular receive sites that are listening on the 146.320 110.9 receive frequency of the repeater. They are basically cross band repeaters. The signals heard on 146.32 are retransmitted on a UHF link back to the primary site at TWU's Guinn Hall building. Each site has its own UHF link frequency. Site #1 is located at KE5UT's station near Celina in the north east side of the county. Site #2 is located at KC5DPC's station in north east Wise County. Site #3 is located near Lake Grapevine dam on W5GM's repeater site tower.

At the primary repeater site, there are three UHF receivers that receive the signal from each site. The audio from these receivers is then fed into a four channel Doug Hall Voter System. The 4th channel of the voter is fed by the repeater's main receiver. This voter system samples all four of these signals for the best signal to noise ratio and "votes" the best channel to be fed to the repeater's transmitter.

So if you are located in the southern part of the county, it is very likely that your signal is being picked up by the Grapevine Lake site and being voted as the best signal for retransmission on the repeater. Majority of the time, the primary site receiver is voted, but if you drop into a low spot, it is likely that one of the voters will pick you up. This is almost seamless if the levels are properly set, but you may hear some tone difference when the signals switch back and forth.

There is another voter, the "Justin" voter, which is actually now located on the American Airlines hanger at

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tors are needed in net control, at rest stops, mobile as rovers, and to trail the last riders (tail). Last year was the first year that the Denton County club participated in this event. The event organizers were impressed and pleased with our work and asked us to take part again this year.

The Susan G Komen Ride for the Cure is October 29th. This horse ride is in the LBJ Grassland National Park in Wise County. This is another event that we worked for the first time last year and were asked back to help again. We will take the club trailer, eComm701, and generator out to the park and place operators at points along the trails where they cross roads and easily accessible locations. Cell Phone coverage is very sparse in the area and our presence along the course is greatly appreciated by the event organizers and participants. The Grasslands is a beautiful place that you will enjoy.

As always, announcements of events and the call for operators is put out through the DCARA Operations Yahoo group. That is also where event documentation and assignments are posted prior to each event. If you are not already a member of the Yahoo group and wish to receive notices of upcoming events, you can follow the link on the DCARA home page to join the Yahoo group. Thank you all for helping out this year and I look forward to some more great operations the rest of the year.

Christmas dinner

By Walt, KE5SOO

This year's DCARA Christmas Dinner is going to be at the Prairie House in Roanoke. Please note that it is not the same place as last year. The Dinner will be on December 8th at 7p. The main course will be prime rib, cowboy potatoes, green beans, and salad. We will have peach and apple cobbler for desert. The Prairie House in Roanoke has a private room so we will be away from the regular guests. The cost will be $25 per person which includes gratuity. You will be able to pay via PayPal or at the September, October, and November meetings. A PayPal link will be available via the web site. All attendees must pay for their meal by December 1st. As always we will have a drawing with prizes. I will send out directions and parking information closer to the time of the Dinner.

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Jonathan – fund raiser report.
Mentioned that we are non profit. He asked that members consider donating to the repeater fund. There is a link on the web site for that.

General announcements.
-Sara Ann said the Red Cross net is no longer being done.
-Remember the Monday night information nets on 146.920 at 8pm.
-Next Sunday is the next test session.
-Batteries Plus gives good discount to DCARA members
-Lewisville Wal-Mart gives donations regularly

Meeting was adjourned at 2055

(Continued from page 2)

online from FEMA. You may take the online courses at you leisure.

Be watching the Denton Co. ARES web site for information on the October SET. The October Set is the 1st and 2nd of October. Our objective is to work both HF and VHF traffic including Winlink messaging.

D*STAR update

By Gerald, WB5NZV

DCARA's new D*Star repeater system is now installed and on the air on the Rosston tower at 1500 ft AGL. The repeater call is KE5YAP and is running a full ICOM D*Star stack of VHF, UHF, 1.2 voice, and 1.2 data modules. The internet connection is not in place yet, therefore the data functions and linking are not operational at this time. The Motorola Canopy system is under construction to provide the internet connection to the site.

The digital voice functions are working well. Coverage has been reported as very good in the Dallas Ft. Worth area and up in Madill, Oklahoma.

Frequency	Input	Output
KE5YAP-C	147.4900	146.4900
KE5YAP-B	440.7125	445.7125
KE5YAP-A	1293.2000	1273.2000
KE5YAP-G	1259.2000	1259.2000

Repeater update

By Mike, AE5IV

Where are we on the new repeaters you ask?

To answer, we have ordered the two VHF TKR 750 repeaters, one for the 146.92 and the other for 145.17. When the repeaters arrive they will be programmed with the frequencies and tested for compliance. Then the controller will be added the 146.92 repeater and installed. The other repeater, 145.17, will be installed and set up for narrow band analog operation, 12.5 KHz channel. When the North Texas Patch is ready to implement the frequency will change to the closest 12.5KHz channel to the 145.17 we have now. At the same time the VHF D-Star repeater, at Roston, will be coordinated to it's new frequency in the Patch range from 145.11 to 145.25 and out of the simplex part of the band.

The UHF repeaters have not been ordered yet. There has been a model change, as the TKR-850 is no longer manufactured. We are looking at what new model will perform best for our needs now and the future.

While we are reading about new repeaters, the Roston site will get a new VHF antenna to replace the one that was destroyed in a storm. That antenna was removed Sunday the 17th from the NTU Stark site and will be installed at the 1700-foot level as soon as it can be scheduled. That antenna will then become a master receive antenna for the two VHF repeaters up there. The transmit antennas will be at the 1500-foot platform. After that the Internet microwave link will be installed and aligned. That should burn a day by itself.

Tech classes

By Tom, K5WTT

In our fast changing and ever moving society, one thing that stays constant is the need for good people to share their skills with others through training. The DCARA club is gearing up to instruct technician classes beginning this Spring. We are looking at a quarterly, single weekend format, the same weekends that our VE testing team is at the EOC. . If you would like to be a part of this excitement, please let Michael Sundstrom, KB5UKT (kb5ukt@arrl.net) or Tom Tackett, K5WTT (k5wtt.tx@gmail.com) know as soon as possible.

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Alliance Airport. This site shares the UHF link with Site #1. In order for both sites to share a common link frequency, the Justin voter receiver requires a 100.0 PL tone instead of the 110.9 that all the other sites require. If you are in the Justin area or the southwest portion of the county, you can simply change your transmit PL tone to 100.0 and that site will link you back into the 92 repeater. Note that this is on the ICE plan as #83.

During events, special voters may be placed on line from eComm701 or other locations as needed. Technical details and use of these voters will be provided with the event instructions.

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especially those who lost their lives during the attacks on 9/11.

This is one of my favorite times of year, cool weather, Hamfests, and usually pretty good conditions for HF. This weekend is the Texas QSO party. I will be operating a good bit on voice and PSK especially using NVIS. Hope to hear some of you this weekend. As far as Hamfest's go, Belton is Oct 1st. It is one of my favorites. There are always a lot of good deals there. The Hamarama in Ardmore OK is Oct 21'st and 22nd. It is another really good Hamfest.

We have confirmed plans for Christmas Dinner. I have reserved the location for December. Please read my article later in the newsletter for more info.

I want to thank everyone who has done work on the repeaters or donated money to those efforts. You will see that we are moving forward on making improvements on our existing repeater systems. There has been a lot of time and effort put into these efforts.

The September meeting presentation will be a joint effort by Brent Wilcox and myself. We will be demonstrating the data side of D*STAR using D*RATS. Time permitting I will demonstrate the DVAP and linking and unlinking reflectors.

This month's meeting will be on September 26th, 7pm at the Denton County EOC.

Area hamfests

10/01/2011 | HamEXPO 2011
Location: Belton, TX
Type: ARRL Hamfest
Sponsor: Temple Amateur Radio Club
Website: http://www.beltonhamexpo.org

Other ARES news

By Guy, KC5GOI / AAR6TP

ARES MEMBERSHIP and BADGES
The requirements to maintain Denton County ARES membership is to have attended a NWS Skywarn training session anytime within the last two years. In addition, IS-100 and IS-700 are also a requirement for membership by end of 1st quarter 2012. After the 1st quarter of 2012, members not meeting the minimum requirements will become "INACTIVE" and eventually removed from Denton County ARES membership.

ICS training status of each ARES member will be posted on the ARES web site. Please advise Gerald / WB5NZV at wb5nzv@gmail.com of any corrections. We have tried to get the training records up to date, but there are bound to be things we have missed. Please provide the date of your last Skywarn training session if you have attended the training in the last two years. There will be a Skywarn training session during the 1st quarter of 2012 for those wishing to meet this requirement. The exact date is to be determined. The IS-100.b and IS-700.a training is free and can be taken on line at this FEMA website.
http://training.fema.gov/is/crslist.asp?page=all

If you are on the list published on the ARES website, http://www.denton-ares.org/ you are now considered an "ACTIVE" ARES member. If you are not on this list and believe you should be, again please contact Gerald.

Badges are not a requirement to be an ARES member. They are provided by the Denton County Office of Emergency Management as method of identification when needed.

There is a problem with printing the ARES badges at this time. This service is provided by the County and the system they have been using is now off line while a new system is put in place. More than likely, new badges will be made for all members once the new system comes on line. The County has not provided us a date when this system will be online.

In other news…

The ARES SET will be on November 5th. It will be a joint operation with Texas Army MARS.

All ARES members should have UHF capabilities in addition to VHF and be prepared to move to a UHF repeater if so directed by NET control.

APRS capability is highly recommended when performing mobile SKYWARN operations. The applications for smart phones like IBCNU can be used if you do not have the traditional RF based APRS equipment. APRS position reporting is a great asset for NET control to instantly determine where the spotters are located and not have to waste valuable air time asking for current location. NET control can see where spotters need to be sent or warn them to get out of harm's way.

New repeaters

By Mike, AE5IV

Where are we on the new repeaters you ask?

To answer, we have ordered the two VHF TKR 750 repeaters, one for the 146.92 and the other for 145.17. When the repeaters arrive they will be programmed with the frequencies and tested for compliance. Then the controller will be added to the 146.92 repeater and installed. The other repeater, 145.17, will be installed and set up for narrow band analog operation, 12.5 KHz channel. When the North Texas Patch is ready to implement, the frequency will change to the closest 12.5KHz channel to the 145.17 we have now. At the same time the VHF D-Star repeater, at Rosston, will be coordinated to it's new frequency in the Patch range from 145.11 to 145.25 and out of the simplex part of the band.

The UHF repeaters have not been ordered yet. There has been a model change, as the TKR-850 is no longer manufactured. We are looking at what new model will perform best for our needs now and the future.

While we are reading about new repeaters, the Rosston site will get a new VHF antenna to replace the one that was destroyed in a storm. That antenna was removed Sunday the 17th from the TWU site and will be installed at the 1700-foot level as soon as it can be scheduled. That antenna will then become a master receive antenna for the two VHF repeaters up there. The transmit antennas will be at the 1500-foot platform. After that the Internet microwave link will be installed and aligned. That should burn a day by itself.

Motion to charge $25 for dinner from Walt. Seconded by Mike Ch. Motion carried
Financial report from Gerald
Balance is $8874.97 Rptr fund is $5500.00
Sept 24 is safety fair. Mike Carline is setting it up. eCOMM to be there.
Mike Chittenden will help Gerald clean it up this Sunday
Mike Carline purchased flag for meetings. We will start all meetings with the pledge.
Repeater fund. Gerald would like to see some way to continue the donations.
Gerald – be sure to bring blank receipts to club meeting
Lifetime membership for officers? Six years as a member, with 3 of those as officer. This is tabled.
Two nominations to be presented at the next club meeting for approval.
Gerald gave report on purchase of repeaters
Gerald asked what we should do with the 900 on Stark?
Walt gave brief history of this repeater.
We need to get Larry to sign an MOU.
Walt made motion to allow Larry to own and operate under DCARA guidelines and sign MOU.
Seconded by Mike Chittenden. Motion carried. Walt will

North Texas patch

By Mike, AE5IV

The North Texas Patch is not a quilt. It is an agreement of repeater trusties to reband their repeaters to narrow band spacing. The frequencies start at 145.11 and end at 145.25.

The advantages are more repeater pairs for narrow band service. At the spacing of 20KHz we get five pairs per 100KHz of spectrum. At 12.5 KHz we get eight pairs.

The reason the 12.5 KHz was chosen was the fact that most repeaters and user radios will not program 10 KHz splits.

The first step was to reband the 145.23 repeater, 110.8 Pl. That was done two months ago. This repeater is linked full time to 444.85, 110.8 PL and 927.875, 103.5 Pl.

The 145.23 Repeater is a Kenwood TKR 750. Testing of narrow band signals worked out well. The repeater also passed wide band signals with a little distortion of the audio.

As a side note, a wide band user radio will receive a narrow band signal; the audio will sound low in level. A narrow band radio transmitting to a wide band repeater will also be low in audio level on the repeater output. Not all radios will be able to be programmed for narrow band service. Most new radios can be programmed for narrow band service.

Some can do this per each channel while other can only do it narrow band on the whole radio. Your radio user manual should let you know if the radio will program for 12.5 KHz channels.

The next step in testing narrow band channels is being done now. A new repeater is being coordinated at Frisco next to the 145.23 channel. It is 145.24 with a Pl to be announced.

This is being done to test co channel interference issues. If this works out the final step is to realign the repeaters to 12.5KHz spacing instead of 20KHz spacing.

What will this do for the Denton County Club you ask?

First the Rosston VHF D-Star repeater will find a new home, out of the simplex part on 2 meters. Second our 145.17 repeater will be on the cutting edge of narrow banded repeaters. Third there will be space for future narrow band technology repeaters in North Texas, where now we have no space or openings. This is the very first step to realign our entire 2 meter band, a process that will take decades to complete.

DENTON COUNTY AMATEUR RADIO ASSOCIATION
P.O. BOX 50433
DENTON, TX 76206

SEP 2011

contact Larry.
Tom – training – did not get hold of Allan. Tom will work on setting up with Allan or Mike Sundstrom. Possibly on Oct 29th
Insurance. Have new quote from new ARRL provider for $200. Go with this
UNT safety / preparedness fair. Sept 20th 10 to 2pm
Newsletter by Walt. Get articles in by 20th.
Gene-Elmer corner. Officer minutes- Mike Carline
DStar – Brent and Gerald
Webpage website – Jonathon working on new server site for dcara and ares sites.
Apparel Vendor – standardized vest for events – Walt has vendor lined up, tabled for now.
Video of meetings – Jonathon working on equipment to do this. We will trial run this at the next meeting
HRIG brought up by Walt. Review at www.dfwhrig.org. Walt would like to see it adopted eventually.
Future events discussed by Mike Nelson. N TX Bike Ride 10/8 and Komen Horse Ride 10/29
Walt wants to talk about club bylaws at the next officer's meeting

As long as this section does not get too crowded, I will accept sale or wanted notices for personal equipment from members or non-members. Priority will be given to members. Editor.

ICOM IC-271H - 2 meter all mode base, with IC HM12 hand mic, power cable, and user manual. This is a solid state radio with CTCSS tone encode that I bought in the late 1980s. I used it for several years until I found a newer model.

Note: This radio has an intermittent transmit power problem. I suspect a cold solder joint that allows the transmit power to exceed the 100 watt design limit occasionally. $200

ICOM BC-35 - HT drop in charger for the IC - 2AT, IC - O2AT style battery packs. $40

Contact Don, KG6LE (callsign)@peoplepc.com